

The Relationship Between the Extent of the Spawning  
Season of Clupea Harengus Membras and Its Fecundity,  
by M. N. Krivobok.  
RUSSIAN, per, Trudy Vses Nauch Issled Inst Rybnogo  
Khoz i Okeanografii, Vol XLIV, 1961, pp 160-164.

Dept of Agri & Fisheries  
(loan)

Sci - \*Biol  
Mar 64

252,864

A Study of the Reaction of Fish to Nets, by  
N. E. Aslanova.  
RUSSIAN, per, Trudy Vses Nsnauch Issled Inst Rybnogo  
Khoz i Okeanografii, Vol XLIX, 1961, pp 165-176.

Dept of Agri & Fisheries  
(Loan)

Sci - Biol  
Mar 64

252,819

Distribution of Alcohol and its By-Products in an  
Indirect Action Rectifying Column, by V. G.  
Artyukhov & A. S. Egorov.

RUSSIAN, per, Tr. Ukr. nashch.-izlled. inst. spir.  
i 14k. vol. from, Vol 7, 1962, pp 41-54.

ALL Ref: RTS 4069

Sci/Chem  
Feb 68

349,677

A Study of the Carbonization of Silica  
Catalysts During Catalytic Cracking of  
Hydrocarbons, by N. V. Mel'tsev, and A. L.  
Khalif, 6 pp.

RUSSIAN, per, Trudy Vsesoyuznogo Nauchno-Issledovatel'skogo Priroda Nauch, 1957, pp 27-34.

Assoc Tech Br  
871262

RJ-1593

Sci - Chem  
Apr 59  
OIL, V. I, No 5

85,914

Recovery of Formaldehyde Vapor From Lean Gases  
At Low Temperatures, by A. K. Ivanov et al.,.

RUSSIAN, per, Trudy Vsesoyuz Nauch. Issledovatel.  
Inst. Prirod. Gazov, No 1, 1957, pp 132-138.

ATB-22K24R

RJ-1511

Sci -  
May 59

87,266

Formation of Disperse Carbon in the Thermal  
Decomposition of Hydrocarbons, by P. A. Tesner.

RUSSIAN, per, Trudy Vses. Nauch.-Issled. Inst  
Prirodnykh Gaz, No 3, 1958, pp 34-63.

ATS RJ-1913

Sci - Chem  
Dec 59

104,089

Gudkov, S. F.  
A STUDY OF THE PARTIAL OXIDATION OF  
METHANE AND PROPANE BY THE COLD-HOT  
TUBE METHOD [1961] 9p.  
Order from ATS \$17.30.                      ATS-00949R

Trans. of Vsesoyuz[nyy] Nauch[no]-Issledovatel[skiy]  
Instit[ut] Prirodnykh Gazov, Trudy (USSR) 1959,  
no. 6(14) p. 125-136.

DESCRIPTORS: \*Methanes, \*Oxidation, \*Propanes,  
Chemical reactions.

(Chemistry--Physical, TT, v. 6, no. 1)

61-22377

I. Gudkov, S. F.  
II. ATS-00949R  
III. Associated Technical Serv-  
ices, Inc., East Orange,  
N. J.

161860

Office of Technical Services

Carbon Black Formation During the  
Thermal Decomposition of Diluted  
Hydrocarbon Mixtures, by P. A. Tesner,  
E. Ya. Robinovich, et al.  
RUSSIAN, per, Trudy Vsesoyuznyi Nauchno-  
Issledovatel'skii Institut Prirodnikh Gazov,  
No 12(20), 1961, pp 27-41.  
SLA TT 64-30145

May 67

327,186



Kel'tsev, V. V. and Vinnikova, N. I.  
THE CATALYTIC DEHYDROGENATION OF PROPANE  
AND ETHANE. [1963] [9]p. 4 refs.  
Order from OTS or SLA \$1.10

63-18882

63-18882

I. Kel'tsev, V. V.  
II. Vinnikova, N. I.

Trans. of Vsesoyuzn[yi] Nauch[nol]-Issledovatel'sk[i]i  
Inst[itut] Prirodnykh Gazov. Trudy(USSR) 1961,  
no. 12(20) p. 187-194.

DESCRIPTORS: \*Propanes, \*Ethanes, Reaction  
kinetics, \*Dehydrogenation, Propenes, Catalysis.

Formation and depositing of carbon on the catalyst di-  
minish with reduced space velocity of the process of  
propane dehydrogenation under conditions of introduc-  
tion of additional hydrogen into the reaction zone, which  
permits increasing by 8-10 vol %, the average yield in  
propylene and up to 40-50 hours the catalysts work be-  
fore regeneration. The method developed for dehydro-  
genation of propane in a fixed layer of Al-Cr catalyst.  
(Chemistry--Physical, TT, v. 10, no. 11) (over)

Office of Technical Services

Khudyakov, O. F. and Velikovskii, A. S.  
EXPERIMENTAL STUDY OF GAS RECOVERY DURING  
DISPLACEMENT OF GAS BY WATER (IN LINEAR RES-  
ERVOIR MODELS). [1964] 21p  
Order from ATS \$27.50

ATS-25Q74R

Trans. of Vses[oyuznyi] Nauchn[o]-Issled[ovatel'skii]  
Inst[itut] Prirodnykh Gazov. Trudy (USSR) 1962,  
no. 17[25] p. 75-98.

TT-64-12764

I. Khudyakov, O. F.  
II. Velikovskii, A. S.  
III. ATS-25Q74R  
IV. Associated Technical  
Services, Inc., East  
Orange, N. J.

(Earth Sciences--Geology, TT, v. 12, no. 1)

Office of Technical Services

The Possibility of Determining True Temperatures of Mineral-Forming Solutions, by N. P. Yermakov, V. A. Kalyuznyy, 6 pp.

RUSSIAN, per, Trudy Vses Nauch-Issledovatel'sky  
Inst P'yemo-opticheskogo Mineralnogo Syr'a (VNITP),  
Issledovaniya Mineraloobrazuyushchikh Rastvorov,  
Vol I, No 2, 1957, pp 41-51.

Amer Geological Inst  
Internatl Geology Review  
Vol III, No 8

167,630

Sci - Phys

Sep 61

The Microscope for Visual Polythermal Investigations and for Macrophotography, by I.N. Anikin.  
RUSSIAN, per, Trudy Vsesoyuznyi Nauchno-Issledovatel'skiy Institut P'ezoopticheskogo Mineralnogo Sy'rya, Vol 3, No 2, 1960, pp 119-121.  
SLA TT-64-16378

Sci/B&M  
Jul 66

305,980

Dynamics of Pigment Content in Phytoplankton  
in Fish Ponds, by N. P. Lavrovskaya.  
RUSSIAN, per, Trudy Vses Nauch-issled Prud  
Rybnogo Khoz, Vol 15, No 18, pp 196-205.  
ML Ref:9024.912 (1157)

Sci-B&amp;M

Feb 70

401,549

The Accumulation of Sugar in Various  
Forms and Stains of Beet and Prospects  
for a Further Increase in the Sugar  
Content of Sugarbeet, by A. S. Okanenko.  
RUSSIAN, per, Trudy Vses Nauchn Issled  
Inst Sakharnoy Svekly, Vol 35, 1957,  
pp 29-55.

\*CFSTI TT 70-57117/6

Sci-B&M  
Mar 70

The Sugar Content of the Roots of Sugar-  
beets, by A. Ye. Maksimovich.

RUSSIAN, per, Trudy Vses Nauchn Issled  
Inst Sakharney Svekly, Vol 35, 1957,  
pp 57-72.

\*CFSTI TT 70-57117/5

Sci-B&M  
Mar 70

Features of Growth and Cell Division in  
High-sugar and High-yield Sugar Beet  
Varieties, by S. Ye. Gomolyako.

RUSSIAN, per, Trudy Vses Nauchn Issled  
Inst Sakharney Svelly, Vol 35, 1957,  
pp 87-95.

\*CFSTI TT 70-57117/3

Sci-BQM  
Mar 70



Intake of Elements of Root Nutrition into  
Sugar Beet During the Initial Phases of  
Growth, by A. Ye. Maksimovich.

RUSSIAN, per, Trudy Vses Nauchn Issled  
Inst Sakharnoy Svekly, Vol 35, 1967,  
pp 145-149.

\*CFSTI TT 70-57117/4

Sci-B&M  
Mar 70

The Structure of the Roots of Sugar Beets  
with Different Schedules of Mineral Nu-  
trition, by T. A. Filatova.

RUSSIAN, per, Trudy Vses Nauchn Issled  
Inst Sakharney Svekly, Vol 35, 1957,  
pp 175-198.

\*CFSTI TT 70-57117/2

Sci-Agri  
Mar 70

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| <p>Solomin, N. V. and Galdina, N. M.<br/>INVESTIGATION OF THE CORROSION OF REFRAC-<br/>TORY MATERIALS BY GLASS COMPOSITIONS<br/>(Issledovanie Raz"edaniya Ogneuporov Steklomassami).<br/>[1962] [20]p.<br/>Order from OTS or SLA \$1.60 62-18205<br/>Trans. of Vsesoyuz[ny] Nauch[no]-Issledovatel'skii<br/>Inst[itut] Stakla. (TI) (USSR) 1956, v. 36, p. 43-50.<br/>DESCRIPTORS: *Refractory materials, Corrosion,<br/>*Glass, Melting, *Quartz, Chemical reactions.</p> <p>(Metallurgy--Corrosion, TI, v. 9, no. 10)</p> | <p>62-18205</p> <p>I. Solomin, N. V.<br/>II. Galdina, N. M.</p> <p>Office of Technical Services</p> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|

63-18401

Zabrodskii, A. G. and Vitkovskaya, V. A.  
AMINO ACID-SUGAR (MELANOIDIN) REACTION AND  
ITS ROLE IN CHEMISTRY AND TECHNOLOGY OF  
FOOD PRODUCTS. [1963] [28]p. 73refs.  
Order from OTS or SLA \$2.60

63-18401

Trans. of Vsesoyuz[ny] Nauch[no]-Issled[ovatel'skii]  
Inst[itut] Spirt[ovoi] i Likero-Vodoch[noi] Prom[yshlen-  
nosti]. Kie[v]skii Filial. Trudy (USSR) 1958, v. 4,  
p. 57-73.

DESCRIPTORS: \*Amino acids, \*Carbohydrates, \*Food,  
Chemical reactions, Oxidation-reduction reactions,  
Physical properties, Proteins,

The reaction of amino acids with sugars is discussed  
with reference to the production of melanoidines in food  
products. The following topics are included: chemical  
nature, components, and physical characteristics of the  
Maillard reaction. The effect of the reaction on the  
(Chemistry--Organic, TT, v. 10, no. 12) (over)

1. Title: Melanoidines
2. Title: Maillard reaction
- I. Zabrodskii, A. G.
- II. Vitkovskaya, V. A.

Office of Technical Services

Smirnov, A. I.  
CHANGES IN THE COMPOSITION OF THE TOBACCO  
LEAF DURING ITS DEVELOPMENT. [1962] 52p.  
Order from K-II \$45.00 K-II-3393-b

Trans. of [Vsesoyuznyi Nauchno-Issledovatel'skii  
Institut Tabachnogo Promyshlennosti.  
Trudy] (USSR) 1926, v. 29, p. 3-55.

DESCRIPTORS: Chemical analysis, \*Tobacco, Plants  
(Botany), \*Growth

(Biological Sciences--Biochemistry, TT, v. 10, no. 3)

(2-2275)

- I. Smirnov, A. I.
- II. K-II-3393-b
- III. Kresge-Hooker Science  
Library Association,  
Detroit, Mich.

Office of Technical Services

62-22753

Smirnov, A. I., Broglav, M. A., and Erygin, P. S.  
AGE CHARACTERISTICS OF TOBACCO LEAVES.  
[1962] 125p.  
Order from K-H \$156.25 K-H 3881-b

Trans. of [Vsesoyuznyi Nauchno-Issledovatel'skii  
Institut Tabachnoi i Makhorkovoi Promyshlennosti.  
Trudy] (USSR) 1928, v. 46, p. 1-49.

DESCRIPTORS: \*Age, \*Tobacco.

(Biological Sciences--Botany, TT, v. 9, no. 5)

- I. Smirnov, A. I.
- II. Broglav, M. A.
- III. Erygin, P. S.
- IV. K-H-3881-b
- V. Kresge-Hooker Science  
Library Associates,  
Detroit, Mich.

Office of Technical Services

Pyantnitskii, M. P.

CHEMICAL CHARACTERISTICS OF THE IRRIGATED  
AMERICAN-TYPE TOBACCOS OF CRIMEA. [1962]

31p.

Order from K-H \$38.75

K-H-5454

Trans. of [Vsesoyuznyi Nauchno-Issledovatel'skii  
Institut Tabachnoi i Makhorkovoi Promyshlennosti.  
Trudy] (USSR) 1929, v. 49, p. 83-98.DESCRIPTORS: \*Tobacco, \*Chemical properties,  
Chemical analysis.

(Chemistry--Analytical, TT, v. 9, no. 5)

04-42000

- I. Pyantnitskii, M. P.
- II. K-H-5454
- III. Kresge-Hooker Science  
Library Associates,  
Detroit, Mich.

Office of Technical Services

U'm, G. S.  
INVESTIGATION OF PROCESS OF FORMATION OF  
NICOTINE DURING GERMINATION OF TOBACCO  
SEEDS. [1962] 41p.  
Order from K-H \$51.25 K-H 3998-b

Trans. from [Vsesoyuznyi Nauchno-Issledovatel'skii  
Institut Tabachnoi i Makhorkovoi Promyshlennosti.  
Trudy] (USSR) 1929, v. 57.

DESCRIPTORS: \*Nicotine, Biosynthesis, \*Tobacco,  
\*Seeds.

(Biological Sciences--Botany, TT, v. 8, no. 10)

62-22453

- I. U'm, G. S.
- II. K-H-3998-b
- III. Kresge-Hooker Science  
Library Associates,  
Detroit, Mich.

Office of Technical Services



Kovalenko, E. I.  
THE NICOTINE CONTENT OF TOBACCO SMOKE.  
[1962] 16p.  
Order from K-H \$20.00

K-H 5461-c

Trans. of [Vsesoyuznyi Nauchno-Issledovatel'skii  
Institut Tabachnoi i Makhorkovoi Promyshlennosti.  
Trudy] (USSR) 1931, v. 81, p. 77-85.

DESCRIPTORS: \*Nicotine, \*Tobacco, \*Smokes.

(Chemistry--Analytical, TT, v. 8, no. 10)

62-22518

I. Kovalenko, E. I.  
II. K-H-5461-c  
III. Kresge-Hooker Science  
Library Associates,  
Detroit, Mich.

Office of Technical Services

62-22892

Zapol'skii, V. V.  
QUANTITATIVE SEPARATION OF AMMONIA FROM  
NICOTINE. [1962] 10p.  
Order from K-H \$12.50 K-H-5461-g

Trans. of [Vsesoyuznyi Nauchno-Issledovatel'skii  
Institut Tabachnoi i Makhorkovoi Promyshlennosti.  
Trudy] (USSR) 1931, v. 81, p. 87-92.

DESCRIPTORS: Separation, Chemical analysis,  
\*Nicotine, \*Ammonia.

I. Zapol'skii, V. V.  
II. K-H-5461-g  
III. Kresge-Hooker Science  
Library Associates,  
Detroit, Mich.

Office of Technical Services

(Chemistry--Analytical, TT, v. 9, no. 5)

62-22751

Smirnov, A. P.  
CONTRIBUTION TO QUESTION OF STRENGTH AND  
ELASTICITY OF TOBACCO LEAF. [1962] 15p.  
Order from K-H \$18.75 K-H-5461-2

Trans. of [Vsesoyuznyi Nauchno-Issledovatel'skii  
Institut Tabachnoi i Makhorkovoi Promyshlennosti.  
Trudy] (USSR) 1931, v. 81, p. 93-102.

DESCRIPTORS : \*Tensile properties, \*Elasticity,  
\*Tobacco, Plants.

(Biological Sciences--Botany, TT, v. 9, no. 5)

I. Smirnov, A. P.  
II. K-H-5461-e  
III. Kresge-Hooker Science  
Library Associates,  
Detroit, Mich.

Office of Technical Services

62-22619

• Pakhomov, E. and Kolodyaznaya, O.  
THE METHODS OF DETERMINING POTASSIUM IN  
TOBACCO. [1962] 20p.  
Order from K-H \$25.00 K-H-5461-cl

Trans. of [Vsesoyuznyi Nauchno-Issledovatel'skii  
Institut Tabachnoi i Makhorkovoi Promyshlennosti,  
Trudy] (USSR) [1931] v. 81, p. 103-111.

DESCRIPTORS: Determination, \*Potassium, \*Tobacco,  
Chemical analysis.

I. Pakhomov, E.  
II. Kolodyaznaya, O.  
III. K-H-5461-d  
IV. Kresge-Hooker Science  
Library Associates,  
Detroit, Mich.

Office of Technical Services

(Chemistry--Analytical, TT, v. 9, no. 5)

62-22893

Zapolskii, V. V.  
MERCURIODIDES OF PYRIDINE, REPT. II (1). [1962]  
10p.  
Order from K-H \$12.50 K-H-5461-f

Trans. of [Vsesoyuznyi Nauchno-Issledovatel'skii  
Institut Tabachnoi i Makhorkovoi Promyshlennosti.  
Trudy] (USSR) 1931, v. 81, p. 113-118.

DESCRIPTORS: \*Mercury compounds, \*Iodides,  
\*Pyridines.

I. Zapolskii, V. V.  
II. K-H-5461-f  
III. Kresge-Hooker Science  
Library Associates,  
Detroit, Mich.

Office of Technical Services

(Chemistry--Organic, TT, v. 9, no. 5)

Timoshenko, S. V.  
AMOUNTS AND FREQUENCIES OF IRRIGATION  
FOR TOBACCO (Normy i Sroki Polivov Tabaka) tr.  
by Mrs. W. Adams. [1962] 10p.  
Order from OTS or SLA \$1.10 62-10920

Abridged trans. of [Vsesoyuznyi Nauchno-  
Issledovatel'skii Institut Tabachnoi i Makhorkovoi  
Promyshlennosti. Trudy] (USSR) 1935, v. 120,  
p. 71-99.

DESCRIPTORS: Plants, Tobacco, Irrigation systems.

(Unannounced)

62-10920

I. Timoshenko, S. V.

Office of Technical Services

Lukyanov, V. S. and Golovko, M. D.  
CALCULATION OF THE DEPTH OF FREEZE IN  
SOILS. CHAPS. 1-2 (Raschet Glubiny Promerzaniya  
Gruntov). [1961] [200]p.  
Order from OTS or SLA \$13.50

61-20440

Trans. from Vsesoyuznyi Nauchno-Issledovatel'skiy  
Institut Transportnogo Stroitel'stva, Trudy (USSR)  
1957, v. 23.

DESCRIPTORS: \*Freezing, \*Soils, \*Depth indicators,  
Mathematical analysis, Moisture, Determination,  
Specifications, Heat transfer, Hydrology, Founda-  
tions (Structures), Snow, Hydraulic systems,  
Integrators, Buildings

## Contents:

The mathematical theory of the freezing of moist  
soils  
(Earth Sciences--Frost, TT, v. 7, no. 5) (over)

61-20440

I. Lukyanov, V. S.  
II. Golovko, M. D.

Office of Technical Services

Investigations Into Earth Cutters and Trials on  
New Designs of Dragline Buckets, by A. I.  
Fedorov.

RUSSIAN, per, Trudy Vsesoyuznogo Nauchno-  
Issledovatel'skogo Instituta Transportnogo Stroitel'  
Stya, No 41, 1961.

ISI

801 - Emp  
Aug 63

341,378



Obtaining Molybdenum Disilicide and Investigating  
Some of Its Properties, by I. S. Brokhin, I. S.  
Zolotarev, A. I. Baranov, 18 pp.

RUSSIAN, per, Trudy Vsesoyuznyy Nauchno-Issledovatskiy  
Institut Tverdynk Splavov, Tverdyye Splavy, No 2,  
1960, pp 24-36. 2-13207

\*FID-TT-63-120  
6

Sci - Min/Met  
Jan 63

Kirsanov, A. T.

MOBILITY OF K IN THE SOIL AS AFFECTED BY  
PLANTS AND FERTILIZERS (Izmenenie Podvizhnosti  
k v Pochve pod Vliyaniem Rastenii i Udobrenii) tr. by  
M. Slade. [1961] [38]p. (foreign text included).  
[CSIRO] Trans. no. 4734.

Order from OTS or SLA \$3.60

60-17775

Trans. of [Vsesoyuznyi Nauchno-Issledovatel'skii]  
Institut [Udobrenii, Agrotekhniki i Agropochvedeniya,  
Moscow]. Leningrad Otdeleniye. Trudy (USSR) 1936,  
v. 45, p. 67-84.

DESCRIPTORS: Soils, \*Potassium, \*Fertilizers,  
Plants, Calcium compounds, Nitrogen compounds,  
Phosphorous compounds

Potassium introduced without other fertilizers remains  
almost unused by the plant, and 60 to 80% of it is con-  
(Agriculture, TT, v. 7, no. 4) (over)

60-17775

- I. Kirsanov, A. T.
- II. CSIRO-4734
- III. Commonwealth Scientific  
and Industrial Research  
Organization (Australia)

Office of Technical Services

(SF-2142)

THE VIABILITY OF PASTEURILLAE SUSPENDED IN AIR,  
BY V S YARNYKH, 14 PP.

RUSSIAN, PER, TRUDY VSES NAUCH-~~ISSLED~~ INSTITUT  
VETERINARII I EKTOPARAZITOLOG, NO 12, 1957,  
PP 196-210

JPRS 12897

SCI - MED  
MAR 62

187,519

Seasonal Dynamics of Cattle Demodectosis and  
Experiments in the Treatment of This Invasion, by  
D. K. Polyakov.

RUSSIAN, per, Trudy Vsesoyuznyi Nauch-Issled  
Inst Veterinarnoi Sanitarii i Ektoparazitologii,  
Vol XIII, 1958, pp 107-116.

OTB 61-27444

Sci  
Mar 62

Vol VII, No 2

189,556

Polyakov, D. K.  
MORPHOLOGICAL CHANGES IN THE SKIN OF  
CATTLE UNDER THE EFFECT OF DEMODEX  
BOVIS AS A CHARACTERISTIC OF THE MANY  
PROCESSES IN THE BIOLOGY OF THE PARASITE.  
tr. by P. A. Kazakov. [1961] 3p. [CSIRO Trans.]5409.  
Order from OTS or SLA \$1. 10 61-27445

Trans. of Vsesoyuznyi Nauchno-Issledovatel'skii  
Institut Veterinarnoi Sanitarii i Ektoparazitologii.  
Trudy (USSR) 1959, v. 14, p. 34-35.

DESCRIPTORS: \*Mites, \*Cattle, \*Skin, Parasites,  
Growth.

The period of life of the colony of *D. bovis* (commu-  
nity of mites) is subject to considerable changes in  
time which can be traced by systematic clinical ex-  
aminations of animals. Colonies of *D. bovis* detected  
(Biological Sciences--Pathology, TT, v. 7, no. 7) (over)

61-27445

- I. Polyakov, D. K.
- II. CSIRO Trans-5409
- III. Commonwealth Scientific  
and Industrial Research  
Organization (Australia)

Office of Technical Services

About Pathogenesis and Pathoanatomic Changes in Case of  
Demodecosis in Cattle, by M. V. Krotova.

RUSSIAN, per, Trudy Vsesoiuznyi Nauchno-Issledovatel'skiy  
Institut Veterinarnoy Sanitarii, Vol 15, 1959, pp 26-37.

\*NTIS TT 71-51022

Dec 71

(NY-6519)

Decontamination of Fodder Contaminated With the  
Anthrax Pathogen, by Ye. Sh. Akopyan, 10 pp.

RUSSIAN, per, Trudy Vsesoyuznogo Nauch-Issled  
Instit Veterinarnoy Snaitsii, Vol XV, No 15,  
1959, pp 204-212.

JPRS 9562

Sci - Med

158,639

Jul 61

The Vitaminization of Margarine, by V. M. Yosikova,  
et al.

RUSSIAN, per, Trudy Vses Nauch Issledovatel  
Vitamin Inst, Vol IV, 1953, pp 211-215.

Assoc Tech Sv RJ-504  
\$8.75

Sci - Chemistry  
Jan 57 CTS

42, 316



Determining Pore Pressure in Slightly  
Permeable Soils in the Body of a Dam  
During the Process of Their Consolida-  
tion, by A. A. Nichiporovich.  
RUSSIAN, per, Vsesoyuznyi Nauchno-  
Issledovatel'skii. Institut Vodosnabzheniya  
Kanalizatsii Gidrotekhnicheskikh  
Sooruzhenii i Inzhenernoi Gidrogeologii.  
Laboratoriya Gidrotekhnicheskikh  
Sooruzhenii. Trudy, No 4, 1963, pp 5-37.  
NTC 72-10246-13M

Apr 72

LIST OF WORKS BY THE STAFF OF THE ALL-  
UNION SCIENTIFIC RESEARCH INSTITUTE OF  
PLANT PROTECTION PUB. IN 1953 AND 1954  
(Spisok Rabot Sotrudnikov VIZR, Opublikovannykh v  
1953 i 1954 GG). 13 Feb 62, 36p. 249 refs.

Trans. A-1325.

Order from OTS or SLA \$3.60

62-23298

Trans. of Vsesoyuznyi Nauchno-Issledovatel'skii  
Institut ~~Zashchity~~ ~~Rastenii~~ (Trudy USSR) 1960, v. 14,  
p. 207-226.

DESCRIPTORS: Scientific research, \*Plants (Botany),  
Bibliographies.

(Agriculture--Plant Cultivation, TT, v. 10, no. 5)

62-23298

USOF

1. Trans-A-1325

Office of Technical Services

Biological Control of Plant Diseases, by  
N. S. Fedorinchik.  
RUSSIAN, per, Tr Vses Nauch-Issled. Inst Zashch Rast.,  
No 23, 1964, pp 201-210.  
\*NTIS TT 71-51026

Dec 71

Effect of Load and Composition of Initial  
Material on the Efficiency of Sieve Performance  
in Cleaning Grain Mixtures, by G. S. Demin,  
A. N. Demidov, 27 p.

<sup>Trudy</sup>  
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SLA 59-17116

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Vol 2, No 9

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CIA 9075536

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V. E. Pisarev.

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DSIR LLU RTS 1184

(20s.)

Sol - Eng'r

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62-32491

Tyunova, N. A.  
CONCERNING THE FRACTIONATION OF GLIADIN  
(K Voprosu o Fraksionirovanii Gliadina). Aug 62  
[13]p. 13 refs. RTS 2116.  
Order from OTS or SLA \$1.60 62-32491

Trans. of Vsesoyuznyi Nauchno-Issledovatel'skii  
Institut Zerna i Produktov Ego Pererabotki. Trudy  
(USSR) 1961, v. 41, p. 17-25.

DESCRIPTORS: \*Fractionation, \*Gliadins, Wheat,  
\*Flour, Gluten, Proteins.

Analytical salting out of the alkali extract of wheat  
flour gluten proteins was carried out by the Zelenskii  
method. Gliadin was fractionated by maintaining al-  
cohol solutions of it at low temperatures (5°). It was  
shown by the diffuse salting out method that the com-  
ponents which salt out most readily (to 1% ofatura-  
(Chemistry--Analytical, TT, v. 8, no. 10) (over)

I. Tyunova, N. A.  
II. RTS-2116  
III. National Lending Library  
for Science and  
Technology (Gt. Brit.)

*NL & RTS 2116*

Office of Technical Services



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Order from NRCC \$7.00 NRCC C-4493

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stitut Zheleznodorozhnogo Transporta. Trudy (USSR)  
1961, no. 207, 127p.

DESCRIPTORS: Railroads, \*Wear resistance, \*Ve-  
hicle wheels, \*Railroad tracks, Curved profiles, Load  
distribution, Railroad cars, Locomotives, Mechanical  
properties, Test methods, Tests

NLL Ref: 8732 1963 (1079) (LOAN)

(Machinery--Transport, TT, v. 10, no. 10)

69-22729

I. Andrievskii, S. M.  
II. NRCC TT-1079  
III. NRCC C-4493  
IV. National Research  
Council of Canada

Office of Technical Services

The Friction Surface of Plastics Under  
Large Magnification, by Sh. M. Bilik and  
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NLL 9022.84B (1304)

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Apr 67

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Adhesion of Certain Polyamide Films to Metals  
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ITD-MI-65-486

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Basis of Requirements for Quality of Atomization  
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FTD-MT-65-487

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Jan 68

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RUSSIAN, per, Turdy. Moscow. Vsesoyuznyy Nauchno-  
Issledovatel'skiy Institut Zheleznodorozhnogo  
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Nauchno-Issledovatel'skiy Institut  
Zheleznodorozhnogo Transporta, No 282,  
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Nauchno-Issledovatel'skiy Institut  
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1964, pp 48-59.  
AIR/FTD/HT-23-1030-67

Sci/Prop & Fuels  
Jan 69

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Effect of the Volume of the System on the  
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by Ye. T. Bartosh, 9 pp.

RUSSIAN, per, Trudy. Moscow, Vsesoyuznyy  
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AIR/FTD/HT-23-1030-67

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No 20, 1960, pp 216-222.  
ATS-RJ-4839

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NLL Ref: 5828.4 1965 (5795)

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SLA TT-64-19859

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\*NTIS TT 72-51067

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NLL M.2424

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*NLL M.2432*

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Sci - Physics

Mar 60

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cl - Phys

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An Investigation Into the Process of Recrystallization  
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Rodicheva, K. H. Romanovskaya, 28 pp.

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No 11 (21), 1957, pp 17-29.

AEC UCRL-Trans-452

Sci - Phys  
Aug 61

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A Study on the Causes of Appearances of Dichroic  
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Process of Developing Thick-Layered Nuclear  
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AEC UCFL-Trans-453

Sci - Phys  
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M. Yu. Deberdeyev, E. I. Scherbakova, 19 pp.

RUSSIAN, per, Trudy Vses Nauch-Issled Kinafototoinst,  
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ABC UCRL-Trans-454

Sci - Phys  
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Investigation of the Swelling Capacity of  
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RUSSIAN, per, Trudy Vsesoyuz Nauch-Issled Kinofoto-  
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Sci - Phys  
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Influence of a Sensitizing Solution on the  
Recrystallization of Silver Bromide and on  
Photographic Properties of Nuclear Emulsions, by  
A. A. Pankova, K. S. Bogomolov, 1 1/2 pp.

RUSSIAN, per, Trudy Vsesoyuz. Nauch.-Issled.  
Kinofotoinst, No 11, (21), 1957, pp 49-57.

AEC UCRL-Trans-456

Sci - Phys  
May 61

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Nikfi Photo Materials for Nuclear Studies of  
Types A-2, Ya-2 and K, by K. S. Bogomolov,  
A. A. Sirotinskaya, M. Yu. Deberdeyev, V. M.  
Uvarova, 22 pp.

RUSSIAN, per, Trudy Vsesoyuz Nauchno-Issledovatel.  
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pp 58-65.

ABC UCHL-Trans-457

Sci - Phys  
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Exkt Photoplates of Types T-1, T-2, and T-3  
for Discriminating Traces of Singly-Charged  
Particles and Alpha-Particles, by A. A.  
Sirotinskaya, K. A. Bogomolov, 16 pp.

RUSSIAN, per, Trudy Vsesoyuz Nauch-Issled  
Kinofotoinst, No 11, (21), 1957, pp 66-72.

AEC UCRL-Trans-458

Sci - Phys  
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The Scientific Principles of a Rational Formula for  
Nuclear Photoemulsions That Record Traces of  
Particles With Minimum Ionization, by K. S.  
Bogomolov, A. A. Sirotinskaya, M. Yu. Deberdeyev,  
V. M. Uvarova, 45 pp.

RUSSIAN, per, Trudy Vses Nauch-Issled Kinofotoinst.,  
No 11, 1957, pp 73-86.

AEC UCRL-Trans-459

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TYPR MP AND MK PHOTOMATERIALS FOR MICRO-  
AUTORADIOGRAPHY, tr. by Ester Goldberg. 1961,  
11p.

Order from LC or SLA ml\$2.40, ph\$3.30

UCRL Trans-460

Trans. of Vsesoyuznyy Nauchno-Issledovatel'skiy  
Kinofotoinstitut. Trudy (USSR) 1957, no. 11(21)  
p. 87-93.

Discussions are presented on (1) the characteristics of  
type MK and MP photographic materials, (2) radio-  
graphic photofilms on flexible backing, (3) a method for  
applying emulsion film to geological sections, metal  
compounds, and histological slices, and (4) photo-  
graphic materials with removable film.

(Materials--Photographic, TT, v. 3, no. 11)

61-15896

1. Autoradiography--  
Materials
2. Photographic film--  
Analysis
1. Bogomolov, K. S.
- II. Deberdeyev, M. Yu.
- III. UCRL Trans-460
- IV. Lawrence Radiation Lab.,  
U. of California,  
Berkeley

160975

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RUSSIAN, per, Trudy Vses Nauch-Issledovatel Kinofot,  
No 29, 1959, pp 5-15.

CIA/FDD XX-1148  
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Also ATS-11N55R  
\$17.75

May 62

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Characterization of the Photographic Activity of  
Diffusing Chromogenic Couplers, by B. A. Chertovskiy,  
M. S. Chel'kov, 7 pp.

RUSSIAN, Dokl. Akad. Nauk SSSR, 1979, No 29, pp 16-23.

CIA/FED XX-1088

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173 411

Sci - Ugrs

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USE INTERNAL USE ONLY

Sharlandzhiev, S. P. and Chel'tsov, V. S.  
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NON-DIFFUSING COLOR COUPLERS BY THE AC-  
TIVATION ENERGY OF THE COLOR DEVELOP-  
MENT PROCESS. 1961, 7p.  
Order from CTT \$14.00

CTT-61K110

Trans. of [Vsesoyuznyi Nauchno-Issledovatel'skii]  
KinoFotoInstitut (Trudy (USSR) 1959, no. 29,  
p. 23-32.

DESCRIPTORS: \*Color photography, Photography,  
Color film, Processing, Energy, \*Photographic  
chemicals, Chemical reactions, Photographic  
emulsions.

(Materials--Photographic, TT, v. 8, no. 1)

62-12984

- I. Sharlandzhiev, S. P.
- II. Chel'tsov, V. S.
- III. CTT-61K110
- IV. Columbia Technical  
Translations, White Plains,  
N. Y.

Office of Technical Services

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characterization of the Properties of Polyethylene  
is included in order to determine, by E. W. Smith, Jr.,  
V. S. G. Smith, 8 p.

RUSSELL, R. W. SECRET: YERECINE Head-Headed  
Classification: 10 29, 1959, to 57-52.

CIA/DO 71-2001  
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Investigation of the Processing of Negative-Type Color  
Film, by Ts. S. Arnol'd, 14 pp.

RUSSIAN, per, Trudy Vsesoyuz Nauch Issledovatel  
Kinofotoinst, No 29, 1959, pp 43-58.

CIA/FDD XX-1094

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Sci - Phys

ATS-09N55R

Jan 62

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USIB INTERNAL USE ONLY

Hypersensitization of Nuclear Photographic Emulsions,  
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13 pp.

RUSSIAN, per, Trudy Vsesoyuz Nauch Issledovatel  
Kinofotoinst, No 32, 1959, pp 5-18.

CIA/FDD X-1093  
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Sci - Phys

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*ATS-39N56R*  
*178, 517*

Zelikman, V. L. and Dmitrieva, V. A.  
REVERSIBLE AGGREGATION OF ULTRAFINEGRAIN  
EMULSIONS. 1961, 39.  
Order from CTT \$6.00

CTT-61K112

Trans. of [Vsesoyuznyi Nauchno-Issledovatel'skii  
Klipo] [Klipo] Institut. Priroda (USSR) 1960, no. 35,  
p. 60-63.

DESCRIPTORS: Photography, \*Photographic emulsions.

(Materials--Photographic, TT, v. 8, no. 1)

62-12990 Rev.

- I. Zelikman, V. L.
- II. Dmitrieva, V. A.
- III. CTT-61K112
- IV. Columbia Technical Trans-  
lations, White Plains, N. Y.

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Deryagin, B. V. and Levi, S. M.  
USE OF A LIMITING BLADE IN APPLYING  
EMULSION LAYERS. 1961, 4p.  
Order from CTT \$8.00

CTT-61K113

Trans. of Vsesoyuznyi Nauchno-Issledovatel'skii  
Kliniko-Foto-Institut. Trudy (USSR) 1960, no. 35,  
p. 64-69.

DESCRIPTORS: Photography, \*Photographic emulsions,  
Photographic films, Processing.

(Materials--Photographic, TT, v. 8, no. 1)

62-12974

- I. Deryagin, B. V.
- II. Levi, S. M.
- III. CTT-61K113
- IV. Columbia Technical  
Translations, White Plains,  
N. Y.

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Liorber, B. G., Shchelkina, E. P. and others.  
ON CERTAIN MERCYANINE-CARBOCYANINE  
DERIVATIVES OF IMIDAZOLIN-4-ONE. 1961, 13p.  
Order from CTT \$26.00 CTT-61K120

Trans. of (Vsesoyuznyi Nauchno-Issledovatel'skii  
Khimiko-Fizicheskii Institut). Trudy (USSR) 1960, no. 37,  
p. 5-16.

DESCRIPTORS: Dyes, Pigments, \*Cyanines, Imides,  
Azoles.

(Materials--Photographic, TT, v. 8, no. 1)

62-12981

- I. Liorber, B. G.
- II. Shchelkina, E. P.
- III. CTT-61K120
- IV. Columbia Technical  
Translations, White  
Plains, N. Y.

Office of Technical Services



62-12166

Khaikin, M. S., Deratuganov, G. V. and others.  
THE DEVELOPING PROPERTIES OF SOME 4-AMINO-  
5-PYRAZOLONES AND THEIR DERIVATIVES. [1961]  
10p.  
Order from ATS \$13.60

ATS-38N56R

Trans. of Vsesoyuznyi Nauchno-Issledovatel'skii  
Kinofotoinstitut Trudy (USSR) 1960, no. 37, p.17-26.

DESCRIPTORS: \*Amides, \*Pyrazolones, \*Pyrazolone  
derivatives, \*Photographic chemicals, Chemicals,  
Physical properties.

(Materials --Photographic, TT, v. 7, no. 3)

- I. Khaikin, M. S.
- II. Deratuganov, G. V.
- III. ATS-38N56R
- IV. Associated Technical  
Services Inc.,  
East Orange, N. J.

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62-12982

Meiklyar, P. V., Rizaeva, I. S., and Ignat'eva, Z. P.  
REDUCTION OF SILVER HALIDE IN THE PROCESS  
OF PREPARATION OF EMULSIONS. 1961, 6p.  
Order from CTT \$10.00 CTT-61K119

Trans. of [Vsesoyuznyi Nauchno-Issledovatel'skii]  
[KinoFotoInstitut], Trudy (USSR) 1960, no. 37,  
p. 50-57.

DESCRIPTORS: \*Photographic emulsions, Preparation,  
\*Silver compounds, \*Halides, Reduction.

(Materials--Photographic, TT, v. 8, no. 1)

- I. Meiklyar, P. V.
- II. Rizaeva, I. S.
- III. Ignat'eva, Z. P.
- IV. CTT-61K119
- V. Columbia Technical  
Translations, White Plains,  
N. Y.

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A Study of the Aging of Photographic Emulsions, by  
A. V. Dorin, M. V. Mishakova, 2 pp.

RUSSIAN, per, Trudy Vses Nauch-Issled Kimfotoinst.  
No 37, 1960, pp 95-106.

CIA/FDD XX-1103  
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*185,960*

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Levkoev, I. I., Sveshnikov, N. N. and others.  
SOME THIACARBOCYANINES CONTAINING ETHYL  
OR ISOPROPYL GROUPS IN HETEROCYCLIC RES-  
IDUES. Pt. 14 on Investigations in the Field of Cya-  
nine Dyes. [1961] &.

Order from ATS \$11.25

ATS-09N57R

Trans. of 'Vsesoyuznyi Nauchno-Issledovatel'skii  
KinoFotoinatitut' Trudy (USSR) 1960, no. 40, p.5-11.

DESCRIPTORS: \*Cyanines, \*Dyes, Ethyl radicals,  
Propyl radicals, Heterocyclic compounds, Photo-  
graphic chemicals

(Materials--Photographic, TT, v. 7, no. 8)

- I. Levkoev, I. I.
- II. Sveshnikov, N. N.
- III. Title: Investigations...
- IV. ATS-09N57R
- V. Associated Technical  
Services, Inc., East  
Orange, N. J.

Office of Technical Services

62-12209

Khelfets, S. A. and Sveshnikov, N. N.  
5,5'-AND 6,6'-DIPHENYLTHIACARBOCYANINES. Pt.  
15 of Investigations in the Field of Cyanine Dyes. [1951]  
9p.  
Order from ATS \$14.95                      ATS-10N57R

Trans. of Vsesoyuz[ny] Nauch[no]-Issledovatel'[skii]  
Kinofotoinst[itut]. Trudy (USSR) 1960, no. 40, p. 12-20

DESCRIPTORS: \*Phthalocyanines, \*Dyes.

I. Khelfets, S. A.  
II. Sveshnikov, N. N.  
III. Title: Investigations ...  
IV. ATS-10N57R  
V. Associated Technical  
Services, Inc.,  
East Orange, N. J.

(Materials--Photographic, TT, v. 7, no. 3)

Office of Technical Services

62-12363

Levkoev, I. I. and Durmashkina, V. V.  
SOME PROPERTIES OF QUATERNARY SALTS OF  
9-METHYLPHENANTHRIDINE. Pt. 16 on Investiga-  
tions in the Field of Cyanine Dyes. [1961] 5p.  
Order from ATS \$9.00      ATS-08N57R

Trans. of Vsesoyuznyi Nauchno-Issledovatel'skii  
Kinofotoinst. Trudy (USSR) 1960, no. 40, p. 21-25.

DESCRIPTORS: \*Cyanines, \*Dyes, Salts, Methyl  
radicals, \*Phenanthridines, Photographic chemicals

(Materials--Photographic, TT, v. 7, no. 8)

- I. Levkoev, I. I.
- II. Durmashkina, V. V.
- III. Title: Investigations...
- IV. ATS-08N57R
- V. Associated Technical  
Services, Inc., East  
Orange, N. J.

Office of Technical Services

Synthesis of Dimerocyanine Dyes Derived From 1,3-  
Disubstituted 4-imidazolidinones, by M. V.  
Deichmeister, L. D. Zhilina, 6 pp.

RUSSIAN, per, Trudy Vses Nauch-Issled Kinofoto Inst,  
No 40, 1960, pp 26-33.

CIA/FID XX-1110

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ATS-074576

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Natanson, S. V.  
ADSORPTION OF CYANINE DYES ON SILVER  
HALIDES. [1961] 15p.  
Order from ATS \$16.95      ATS-13N57R

Trans. of Vsesoyuz[ny] Nauch[no]-Issledovatel'skii  
Kinofotoinst[itut]. Trudy [USSR] 1960, no. 40,  
p. 34-49.

DESCRIPTORS: \*Phthalocyanines, \*Dyes, Adsorption,  
\*Silver compounds, \*Halides, Adsorbents.

(Chemistry--Physical, TT, v. 7, no. 3)

62-12208

I. Natanson, S. V.  
II. ATS-13N57R  
III. Associated Technical  
Services, Inc.,  
East Orange, N. J.

Office of Technical Services



Effects of Crystal Composition on Spectral Response  
for Silver-Halide Photographic Emulsions, (E-829), by  
S. V. Matanson, M. M. Kostina, 9 pp.

RUSSIAN, per, Trudy Vses Nauch-Issled Kinofoto Inst,  
No 40, 1960, pp 50-61.

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